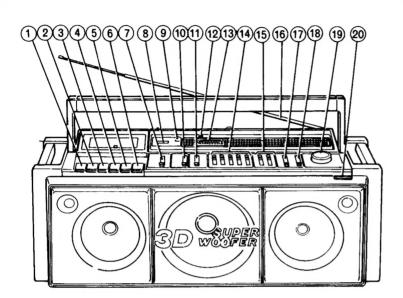
# HITACHI SERVICE MANUAL



TK

No. 2151E

**TRK-7620E/E(BS)** 

TN-33ZHC-558 chassis

#### **CONTENTS**

SPECIFICATIONS 2
DISASSEMBLY 2
ADJUSTMENT4
INSPECTION OF MECHANISM 6
LUBRICATION6
SCHEMATIC DIAGRAM 7
CIRCUIT BOARD DIAGRAM11
WIRING DIAGRAM13
REPLACEMENT PARTS LIST16
EXPLODED VIEW17
DIAL CORD STRINGING21

#### **KEY TO ILLUSTRATIONS**

- (1) RECORD BUTTON
- 2 PLAYBACK BUTTON
- (3) REWIND BUTTON
- (4) FAST FORWARD BUTTON
- (5) STOP/EJECT BUTTON
- 6 PAUSE BUTTON
- (7) SPEAKER SELECTOR/INNER MIC. SWITCH
- (8) TAPE COUNTER
- (9) COUNTER RESET BUTTON
- (10) TAPE SELECTOR

- (1) FM MODE/RIF SELECTOR
- 12) FM STEREO INDICATOR
- (13) LED LEVEL INDICATORS
- (14) GRAPHIC EQUALIZER CONTROLS
- (15) VOLUME CONTROLS
- (16) TELESCOPIC ANTENNA (AERIAL)
- (17) FUNCTION SELECTOR
- (18) AM BAND SELECTOR
- (19) TUNING CONTROL
- (20) BUILT-IN MICROPHONE (MONAURAL)

#### SAFETY PRECAUTION -

The following precautions should be observed when servicing.

- Since many parts in the unit have special safety-related characteristics, always use genuine Hitachi's replacement parts. Especially critical parts in the power circuit block should not be replaced with other makes.
   Critical parts are marked with in the schematic diagram, and circuit board diagram.
- 2. Before returning a repaired unit to the customer, the service technician must thoroughly test the unit to ascertain that it is completely safe to operate without danger of electrical shock.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

HIGH PERFORMANCE PORTABLE CREATIVE SOUND SYSTEM

**July 1984** 

**TOKAI WORKS** 

#### **SPECIFICATIONS**

**■ GENERAL SPECIFICATIONS** 

**Power Supply** 

220V, 50 Hz [E]

240V, 50 Hz[E(BS)]

**Batteries DC 12V** 

(8 x UM-1, "D" size, IEC R20 or

equivalent)

Car Battery DC 12V via car adaptor "HITACHI

D-74"

(This car adaptor may not be available in some countries.)

**Power Consumption** Dimensions (W x H x D)

See destination chart 544 x 197 x 195 mm Weight Semiconductors

5.3 kg (including battery) ICs: 6

Transistors: 12 [E]

13 [E(BS)]

Diodes: 18 LEDs: 6 Varicarp: 1

■ AUDIO AMPLIFIER SECTION

Audio amplifier-speaker system

Multi-channel 3 independent main amplifiers and 3-way 5-Multi speaker system (3D system)

Middle and High frequency bands

Main amplifiers Stereo main amplifiers Drive speakers Pair of 120 mm bass units

Pair of 20 mm ceramic tweeter units

Low frequency band

Main amplifier BTL monaural main amplifier Drive speaker 160 mm super-bass unit Acoustic crossover frequency between 2 channel

amplifiers/speaker system 150 Hz

**Power Output** 14 watts (3W + 3W + 8W)

(RMS, DC, THD 10%)

22 watts (M.P.O.) Harmonic Distortion 0.8% (at 1/2 rated output)

(Stereo amplifiers and BTL

monaural amplifier)

**Graphic Equalizer** 5 band controls

Control Effect 60 Hz + 6 dB

250 Hz ± 6 dB 1 kHz ± 6 dB 3.5 kHz ± 6 dB 10 kHz ± 6 dB

TUNER SECTION

FM/SW/MW/LW 4-band Circuit System

superheterodyne FM: 87.5 to 108 MHz

Tuning Range: SW : 6 to 18 MHz

MW: 530 to 1605 kHz

Sensitivity:

LW: 150 to 285 kHz :  $4\mu V (S/N = 30 dB)$ 

2μV (Maximum) SW :  $50\mu V (S/N = 20 dB)$ 

30µV (Maximum)  $MW: 300\mu V/m (S/N = 20 dB)$ 

100µV/m (Maximum) :  $700\mu V/m (S/N = 20 dB)$ 250µV/m (Maximum)

Intermediate Frequency: FM: 10.7 MHz

SW/MW/LW: 465 kHz

Antennas (Aerials): FM/SW: Telescopic antenna (aerial)

MW/LW: Built-in ferrite-core

antenna (aerial)

**CASSETTE DECK SECTION** 

Tape Compact Cassette (C30, C60, C90)

**Tracks** 4-track (2-channel stereo) **Tape Speed** 

4.75 cm/sec **Recording System** AC bias 55 kHz **Erase System** Quasi AC

Playback Frequency

Response Metal tape: 60 - 12,000 Hz

(HITACHI ME90) High bias tape (Chromium tape): 60 - 11,000 Hz

(HITACHI SX90, HITACHI EX90) Normal tape: 60 - 10,000 Hz

(HITACHI DL90)

Crosstalk

Between Tracks 65 dB Between Channels 40 dB **Erase Ratio** 60 dB Distortion 3% Fast Forward or

**Rewinding Time** 105 sec.

Head Hard Permalloy Rec/Play head Motor Electrical Servo DC motor

INPUT AND OUTPUT

Microphone (L/R)

Sensitivity 0.6 mV (3.5 mm diameter jack)

Impedance 1.2 kohms Line in (L/R)

Sensitivity 500 mV Impedance 680 kohms Line out (L/R)

700 mV Sensitivity Load Impedance 1 kohm

Headphone (3.5 mm diameter jack)

8 ohms - 2 kohms Mixing Microphone

Sensitivity Impedance

1 mV (3.5 mm diameter jack)

10 kohms

#### DISASSEMBLY

#### 1. Cassette lid

Push the cassette lid arm in the direction of the arrow using a flat-tip screwdriver and pull the cassette lid towards the from to remove it.

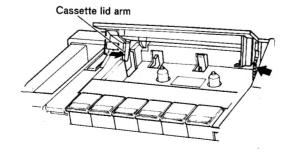


Fig. 1

- 1) Remove 5 fixing screws (A) shown in figure 2, 3, 4.
- 2) Press the EJECT button to open the cassette lid and lift the top panel holding the telescopic antenna side to remove it.

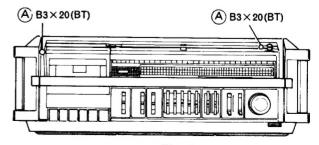


Fig. 2

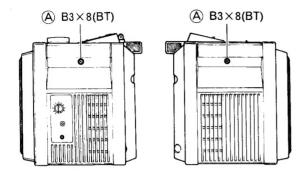


Fig. 3

## 3. Rear case Remove 8 fixing screws (B) .

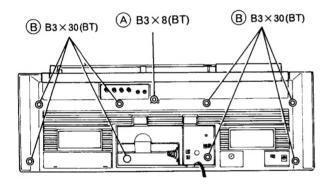


Fig. 4

- 4. Cassette chassis
  Remove 4 fixing screws © .
- 5. Main PC Board
  Remove 5 fixing screws ① .

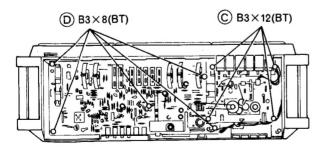


Fig. 5

## 6. Power PC Board Remove 2 fixing screws (E) and push the stopper (F).

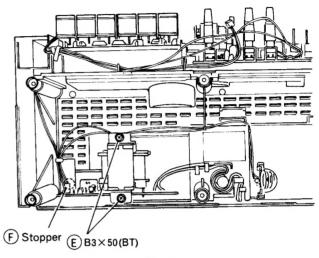


Fig. 6

## 7. Mix. mic/Headphone PC Bard Remove Mixing mic volume knob and 2 fixing screws ⑤ .

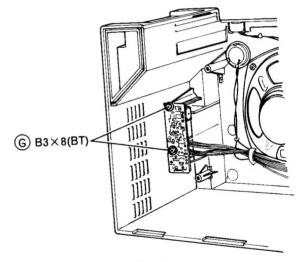


Fig. 7

## 8. Indicator PC Board Push the 2 stoppers.

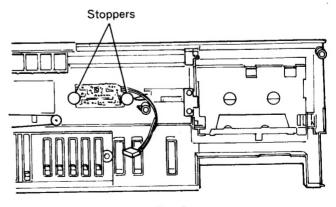


Fig. 8

#### **ADJUSTMENT**

#### 1. Tuner Section

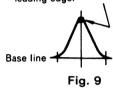
\* For West Germany

		Adjustment	Measuring Instrument and Connection		Genescope or Signal	Dial					
Step		Item			Output Terminal	Generator Frequency	Pointer Position	Adjust	Reading		
			Turn T202 fully counterclockwise.								
1	(1)	FM IF	• Genescope (10.7 MHz)	TP102	TP201	10.7 MHz	Highest '	T101	Note 1		
	(2)	S-Curve	(10.7 1411 12)					T202	Note 2		
	(1)			87 MHz (*87.5 MHz)	Lowest	L102	May				
2	(2)	FM OSC. (Covering)	• FM signal			109 MHz (*108 MHz)	Highest	CT102	Max.		
	(3)	,	generator (400 Hz, 30%	TP101 (thru FM dummy)	TP201		Repeat steps	(1) and (2)			
	(1)	FM ANT. (Tracking)	mod.) • Oscilloscope	antenna) (Note 3)	17201	90 MHz	90 MHz	L101	Max.		
3	(2)		• VTVM	(11010 0)		106 MHz	106 MHz	CT101	iviax.		
	(3)						Repeat steps	(1) and (2)			
4	(1)	FM MPX (Multiplex)	•Frequency counter	Connect a 10µF 25V electrolytic capacitor between the No.1 pin of IC301 and ground.	TP301			RT301	38 kHz ±50 Hz (Note 4)		
5	(1)	AM IF	Genescope	Ferrite-core antenna	TP201	465 kHz	Highest	T201 T203	Note 6		
	(2)		(465 kHz)	(Note 5)		Repeat steps (1)					
	(1)	LW OSC.			TP201	145 kHz	Lowest	L156	Max.		
6	(2)	(Covering)	AM signal			290 kHz	Highest				
	(3)		generator (400 Hz, 30%	Ferrite-core antenna			Repeat steps	eat steps (1) and (2)			
	(1)	1	LW ANT (Tracking) (Note 5)			160 kHz	160 kHz	L153	Max.		
7	(2)				270 kHz	270 kHz	CT153				
	(3)					Repeat steps (1) and (2)					
	(1)					515 kHz	Lowest	L155	Max.		
8	(2)	MW OSC. (Covering)	• AM signal		TP201	1650 kHz	Highest	CT155	]		
	(3)		generator Ferrite	Ferrite-core antenna		Repeat steps (1) and (2)					
	(1)		mod.) • VTVM	(Note 5)	11 201	600 kHz	600 kHz	L152	Max.		
9	(2)	MW ANT. (Tracking)	- 4 1 4 141			1400 kHz	1400 kHz	CT152	IVIAX.		
	(3)					Repeat steps (1) and (2)					
	(1)	1				5.8MHz	Lowest	L154	May		
10	(2)	SW OSC. (Covering)	AM since	TDtot		18.5MHz	Highest	CT154	Max.		
	(3)	1 '	• AM signal generator	TP101 (thru SW dummy	TDOOL		Repeat steps	(1) and (2)	, <b>.</b> ,		
	(1)		(400 Hz, 30% mod.)	antenna) (Note 7)	TP201	6.5 MHz	6.5MHz	L151			
11	(2)	SW ANT. (Tracking)	• VTVM			16 MHz	16MHz	CT151	Max.		
	(3	7					Repeat steps	(1) and (2)	1		

#### Note:

 Feed in a weak signal to TP102 from the genescope. Adjust T101 for maximum gain and the waveform indicated in Figure 9. If the center of the waveform cannot be lined up on the marker, adjust the right/left balance.

Adjust the genescope output so that there is a little noise riding on the leading edge.



Use the T202 core to form the S-curve shown in Figure 10. Adjust the symmetry of A and B about point C for linearity.

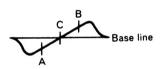
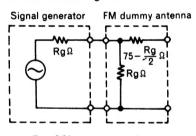


Fig. 10

3. FM dummy antenna shows Figure 11.



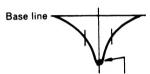
Rg: SG's output impedance

Fig. 11

#### 2. Tape Recorder Section

Perform the following adjustments in the sequence stated after cleaning the head, pressure roller, and capstan with a head cleaning stick moistened in alcohol.

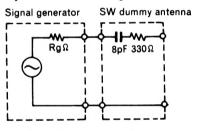
- 4. Connect the frequency counter to TP301 and connect a  $220 k\Omega$  resistor parallel with the frequency counter.
- 5. Connect AM signal generator to loop antenna, bring near to ferrite antenna.
- 6. Feed in a weak signal from the genescope. Adjust T201, T203 for maximum gain and the waveform of Figure 12.



Adjust the genescope output so that there is a little noise riding on the leading edge.

Fig. 12

7. SW dummy antenna shows Figure 13.



Rg: SG's output impedance Fig. 13

Step	Adjustment Item	iustment Measuring Instrument and Connection			Check	Mode	Adjusted	Adjusted	Remarks
		Measuring Instrument	Input Terminal	Output Terminal	Tape	WIOGE	Position	Value	nemarks
1	Tape speed	Frequency counter		LINE OUT socket	Tape speed adjustment tape (3 kHz)	Playback	Semivari- able resis- tor in the motor PC board	3kHz±20Hz	Note 1
2	Head azimuth	• VTVM		LINE OUT socket	Head azimuth adjustment tape(10kHz)	Playback	Azimuth adjusting screw	Output max.	Note 2

#### Note:

- 1. Adjust within 30 sec. after heat-running for more than 20 minutes.
- 2. When the maximum values of both channels are diff-

erent, adjust to the maximum value of the L channel. In this case, the difference between the maximum values of both channels should be within 2 dB.

#### **INSPECTION OF MECHANISM**

Item	Chec	k Item	Reference Value	Remarks
1	Pressure of pressure rol	e roller 350-550g		Manager in plantach made
		Take-up	35-65g⋅cm	- Measure in playback mode
2	Torque	Fast forward	60-140g·cm	Measure in fast forward mode
		Rewind	60−140g·cm	Measure in rewind mode
•	Bulling	Supply side 2.0−6.0g·cr		Measure in playback mode (without counter belt)
3	Back tension	Take-up side	2.0−6.0g·cm	Measure in playback mode (with counter belt)
		Playback button	1.7 kg	
		Fast forward button	1.0 kg	
	Button anaustian force	Rewind button	1.0 kg	
4	Button operation force	Stop button	1.5kg	
	Record button		2.3kg	
		Pause button	1.5 kg	
5	Flywheel thrust gap		0.1-0.3mm	

#### **LUBRICATION**

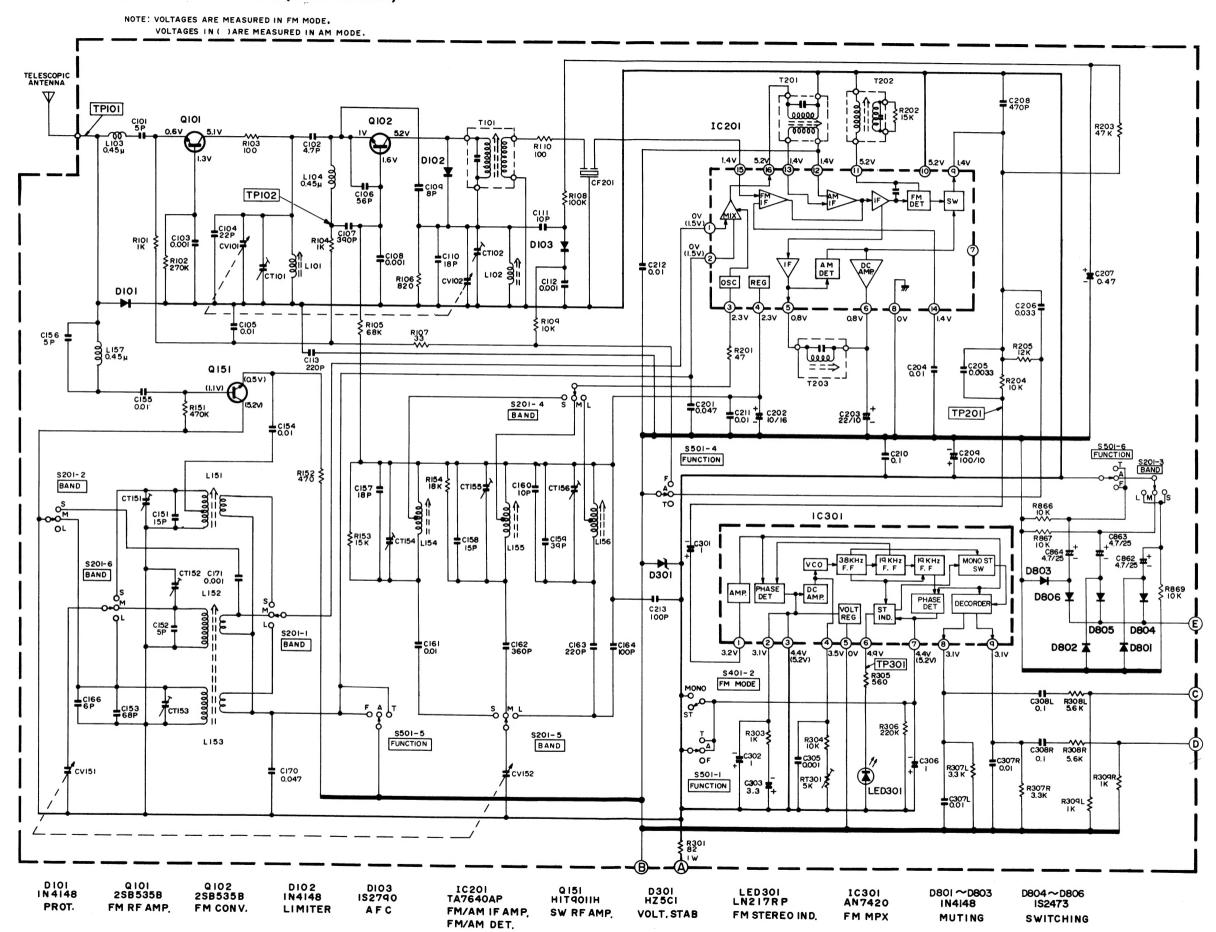
Lubricate one or two drops of oil to rotating point or lubricate grease to sliding point.

Lubricate the respective parts listed once every 1000 hours or once a year under normal conditions of use.

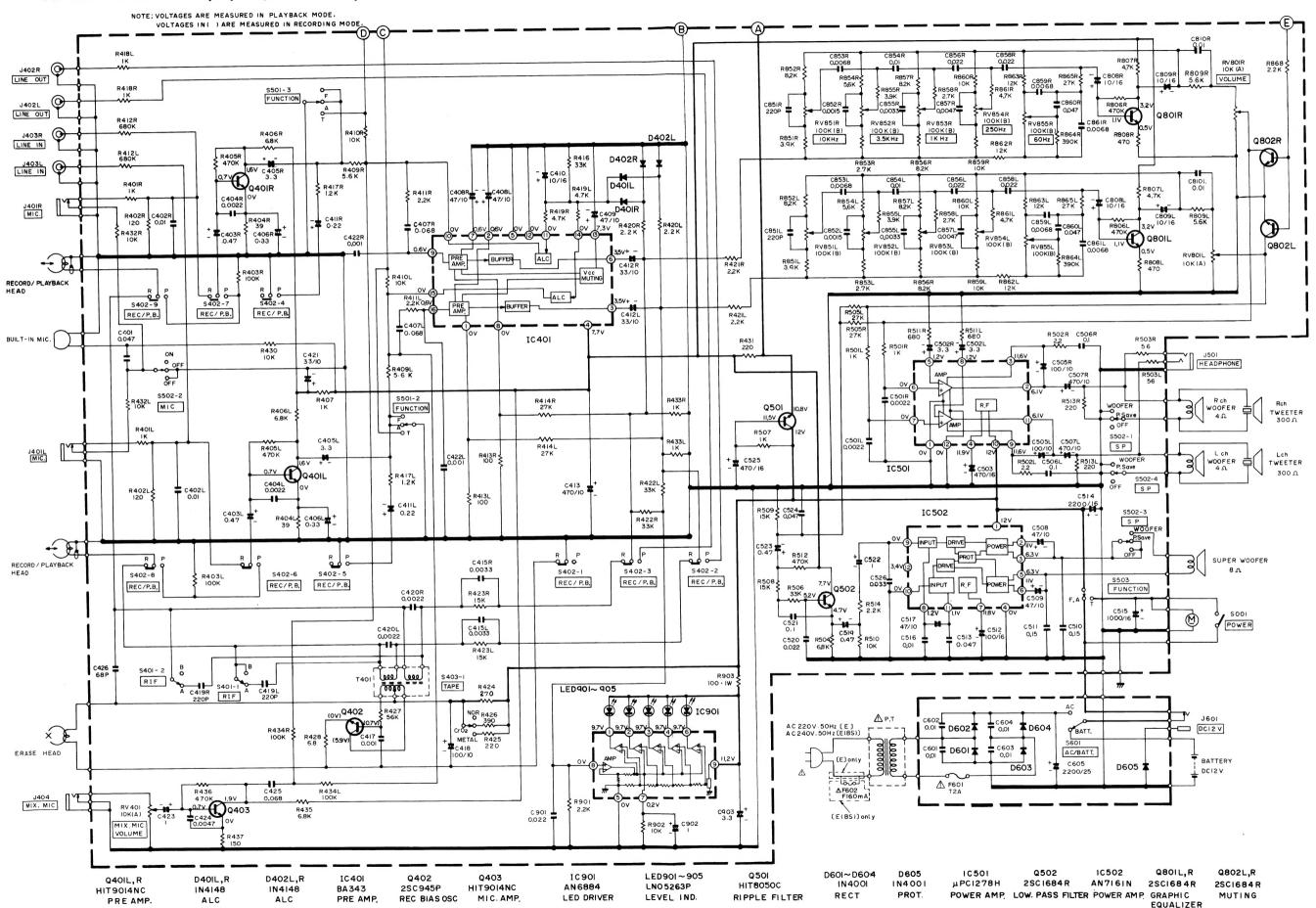
Avoid oiling them excessively, or rotation may become irregular because of oil splashes.

	Lubrication	Oil or Grease
Rotary	Metal and metal	Pan motor oil (10W-40)
section	Mold and metal	Sonic slider oil (#1600)
Clidina	Metal and metal	Hitasol (MO-138)
Sliding section	Mold and mold Mold and metal	White grease (FL-LUBE-A)
Spring res	sonance prevention	Floil (GB-TS-1)

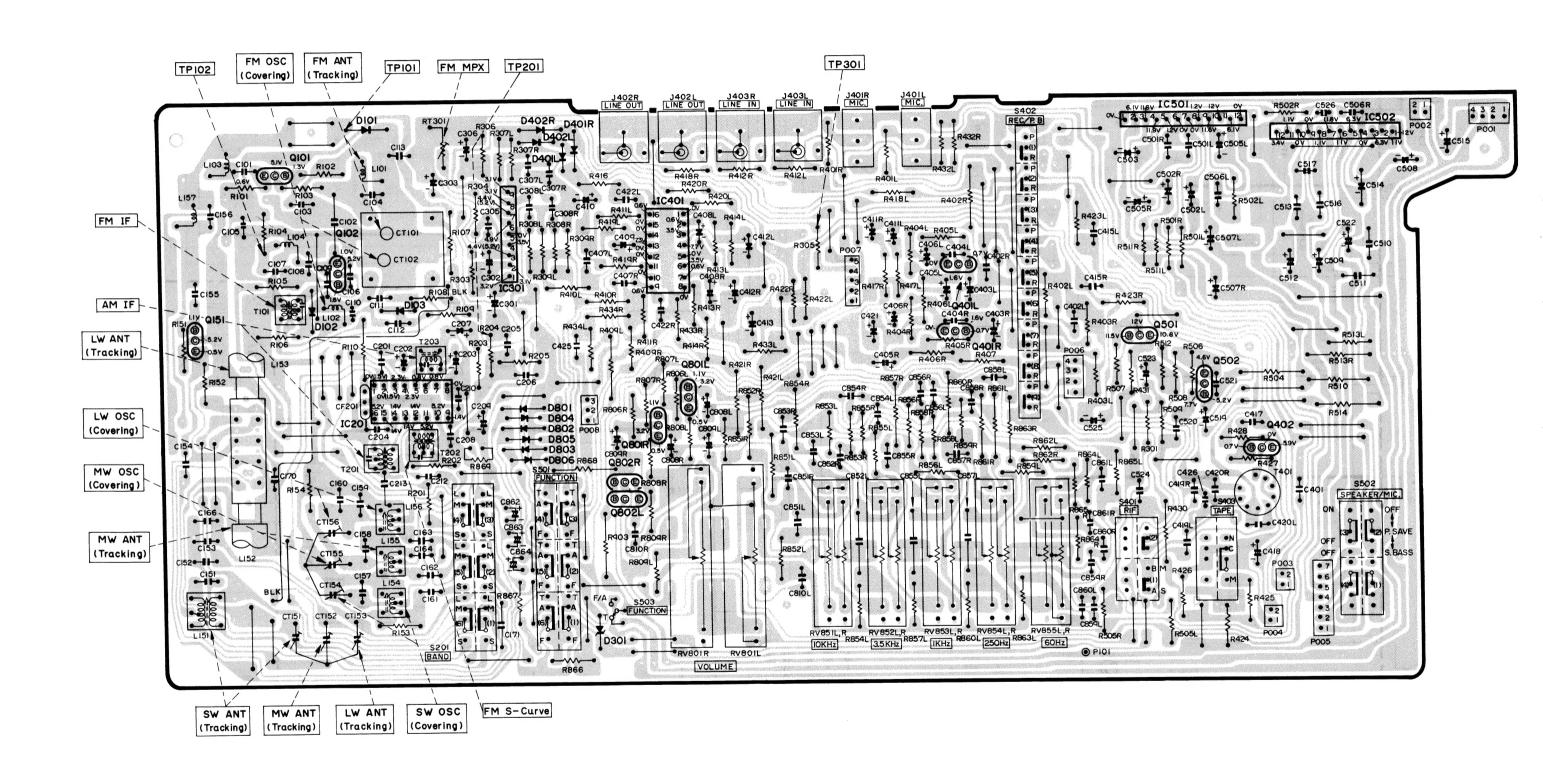
#### **SCHEMATIC DIAGRAM (Tuner Section)**



#### SCHEMATIC DIAGRAM (Tape/Audio Section)

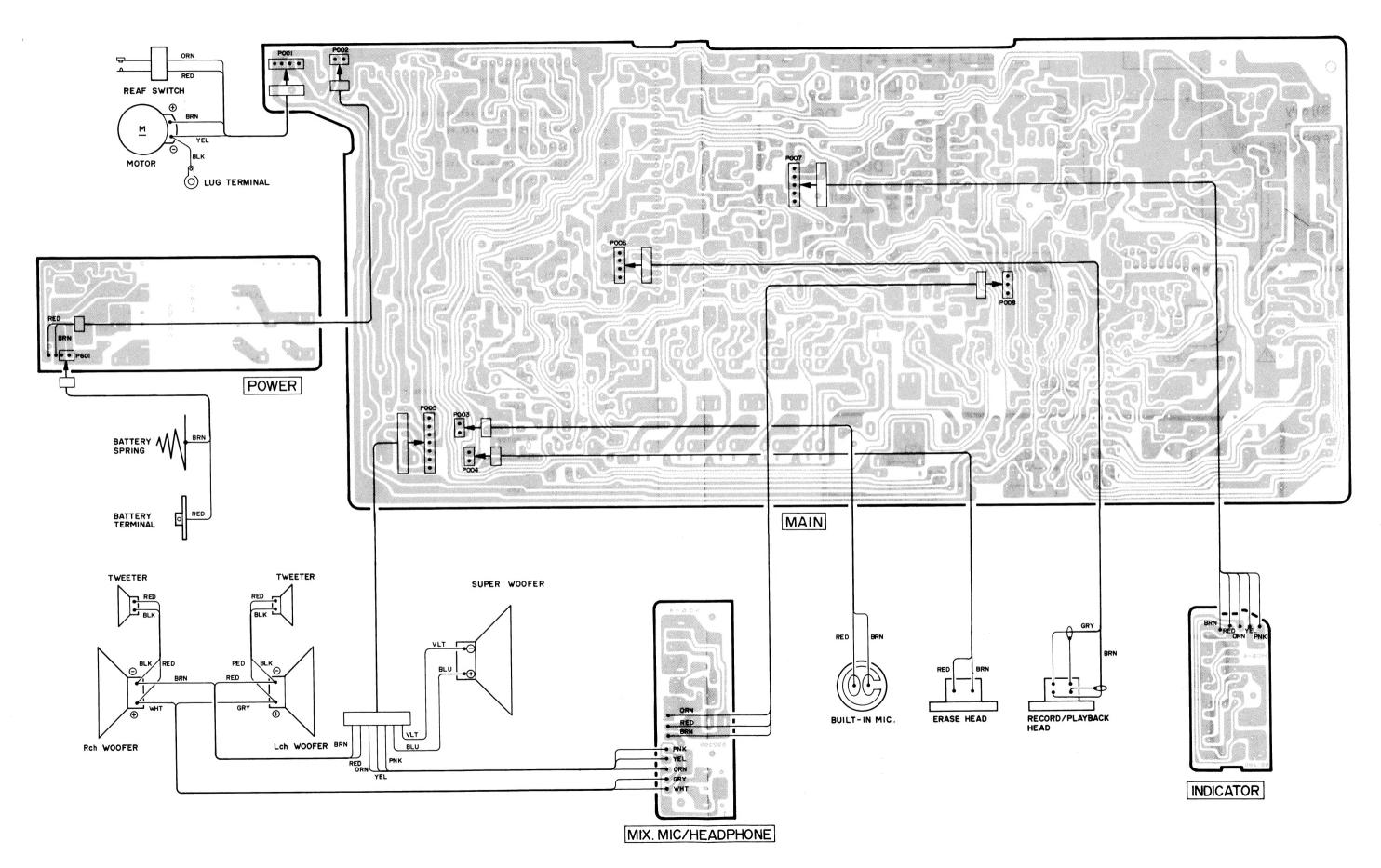


#### **CIRCUIT BOARD DIAGRAM**

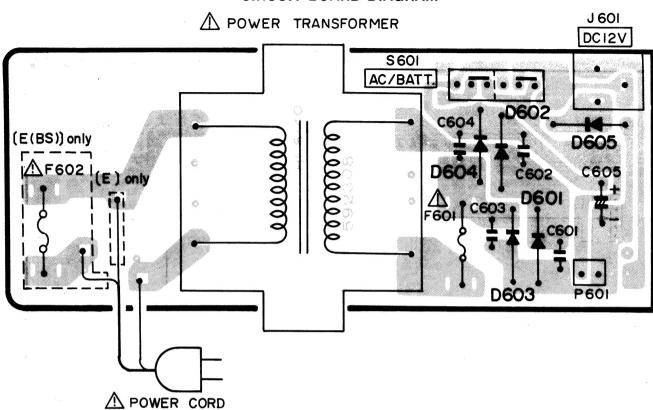


- 12 -

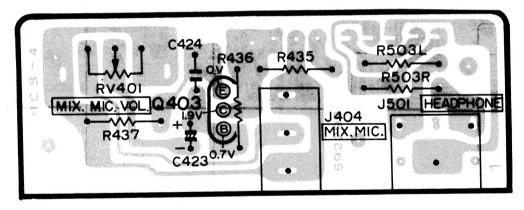
### WIRING DIAGRAM



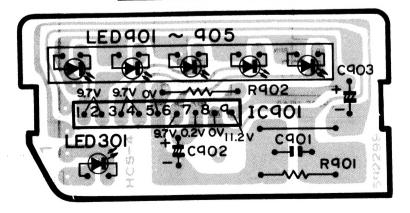
#### CIRCUIT BOARD DIAGRAM



**POWER** 



MIX. MIC/HEADPHONE

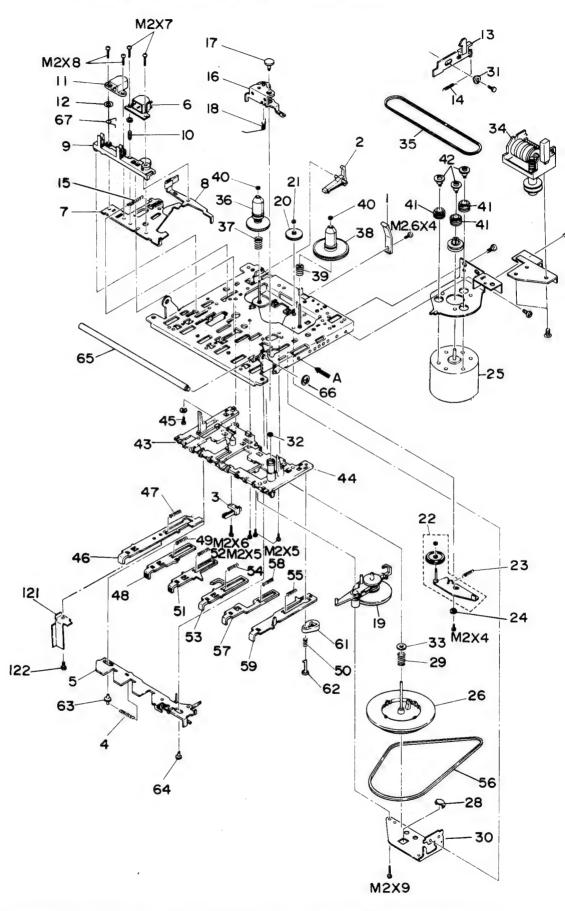


INDICATOR

#### REPLACEMENT PARTS LIST

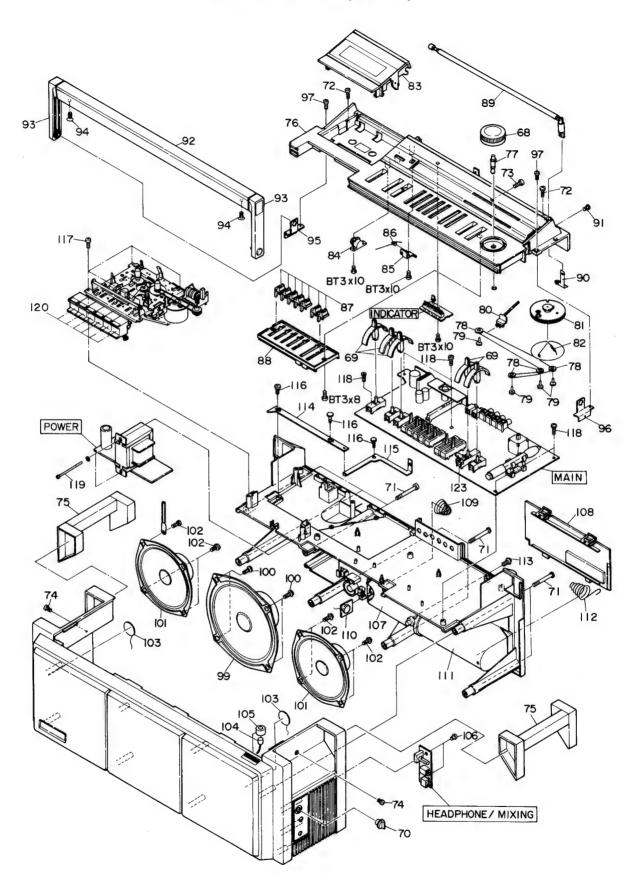
SYMBOL-NO	P-N0	DESCRIPTION	SYMBOL-NO	P-N0	DESCRIPTION
		FOR CHASSIS ASSEMBLY (TN-33ZHC-558)	34	5559721	COUNTER
1	6535092	CASSETTE HOLDER SPRING	35	6356221	COUNTER BELT
2	6774321	RECORD PREVENTION LEVER	36	6774361	SUPPLY REEL ASSEMBLY
3	5603641	LEAF SWITCH	37	6521061	BACK TENSION SPRING
4	6544541	SPRING	38	6774502	TAKE-UP REEL ASSEMBLY
5	7350594	PUSH BUTTON ACTUATOR ASSEMBLY	39	6521061	BACK TENSION SPRING
6	5449391	RECORD PLAYBACK HEAD	40	7788443	WASHER
7	7350481	HEAD PLATE	41	6590791	MOTOR RUBBER
8	7350851	SENSING PLATE ASSEMBLY	42	7547561	SPECIAL SCREW
9	6774311	HEAD BASE	43	6778081	BUTTON BASE (R)
10	6521091	HEAD SPRING	44	6778071	BUTTON BASE (L)
11	5445371	ERASE HEAD	45	7783381	SPECIAL SCREW
12	7788002	WASHER	46	7351191	RECORD BUTTON LEVER
13	6780171	EJECT SLIDE LEVER	47	6548471	SPRING
14	6544581	SPRING	48	7364491	PLAY BUTTON LEVER
15	6542991	SPRING	49	6548462	SPRING
16	7350841	PRESSURE ROLLER ARM ASSEMBLY	50	6521112	SPRING
17	6774331	PRESSURE ROLLER ARM STOPPER	51	7351151	REWIND BUTTON LEVER
18	6548452	SPRING	52	6521041	SPRING
19	7364581	RF PULLEY ARM ASSEMBLY	53	7351181	FF BUTTON LEVER
20	6432411	FF GEAR	54	6548461	SPRING
21	7788441	WASHER	55	6548462	SPRING
22	7350831	TAKE-UP ROLLER ARM ASSEMBLY	56	6356231	BELT
23	6542981	SPRING	57	7351141	STOP BUTTON LEVER
24	7571751	COLLER	58	6548471	SPRING
25	5577918	DC MOTOR ASSEMBLY	59	7351642	PAUSE LEVER ASSEMBLY
26	6774512	FLYWHEEL ASSEMBLY	61	6757261	PAUSE LEVER
28	6757372	FLYWHEEL PLATE	62	6774282	PAUSE STOPPER
29	6521051	SPRING	63	6774341	ACTUATOR SHAFT (B)
30	7350442	FLYWHEEL HOLDER	64	6774281	ACTUATOR SHAFT
31	7570681	EJECT COLLER	65	7551771	BUTTON SHAFT
32	7787431	NYLON WASHER	66	7774646	E RING-3.2MMD
33	7788442	WASHER	67	6549541	RC SPRING

#### **EXPLODED VIEW (TN-33ZHC-558 chassis)**



Note: Components marked without numbers in this drawing are not specified as replacement parts.

#### **EXPLODED VIEW (Cabinet)**

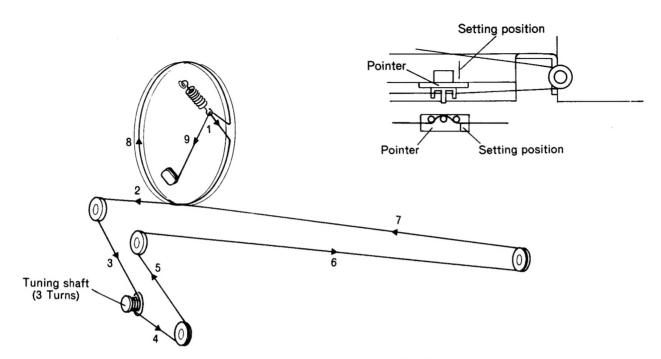


Note: Components marked without numbers in this drawing are not specified as replacement parts.

SYMBOL-NO	P-N0	DESCRIPTION	SYMBOL-NO	P-N0	DESCRIPTION
		MISCELLANEOUS	116	7540374	SPECIAL SCREW
68	6284421	TUNING KNOB	117		BIND TAPPING SCREW-3MMDX12MM(BLACK)
69	6276471	KNOB (AM BAND, FUNCTION, RIF/FM MODE, TAPE,	118	8699408	BT HIND HEAD SCREW-3MMDX8MM (BLACK)
,	02/04/1	SP./MIC)	119	7781148	
70	6285863	KNOB (MIXING)	120	6060911	
71	7781147	BT BIND HEAD SCREW-3MMDX30MM			RECORD LEVER (A)
72	7781146	BT SCREW-3MMDX2OMM	121		BIND SCREW-2.6MMDX4MM
73	8699408	BT BIND HEAD SCREW-3MMDX8MM (BLACK)	123		PAN HEAD SCREW-1.7MMDX8MM
74	8744405	BIND SCREW-3X5MMD	123	1180704	PAN DEAD SEREN-1, FRIDADIN
75	6335281	SIDE HANDLE			CAPACITORS
76	6010542	TOP PANEL ASSEMBLY		00075.5	
77	7582131	TUNING SHAFT	CT151-156		VARIABLE CAPACITOR
78	6344051	ROLLER	C102		CERAMIC (RESISTOR SHAPE) 4.7PF+-5%
79	7564281	ROLLER PIN	C110	0246446	CERAMIC, DISCAL CAPACITOR 18PF+-10% NP=0
80	6393181	POINTER	C852L	0209021	CERAMICDISC (RESISTORSHAPE) 1500PF+-10%
81	6423491	PULLEY	63551	02000	
82	6316231	SPRING M	C855L	0209023	CERAMIC DISC (RESISTOR SHAPE) 3300PF +-30%
83		CASSETTE LID ASSEMBLY	C857L	0209024	CERAMIC DISC (RESISTOR SHAPE) 4700PF +-30%
84		DAMPER ASSEMBLY LID SPRING HOLDER	PVC	5052812	VARIABLE CAPACITOR
86		LID SPRING			RESISTORS
87		SLIDE KNOB (VOLUME,G/E)			100001000
88		SLIDE KNOB HOLDER	RT301	5007682	SEMI VARIABLE SKOHM
89	5752721		RV401	5001241	VARIABLE RESISTOR 10KOHM(A)
90	7362601		RV801LR	5020173	VARIABLE RESISTOR 10KOHM(A)
91		BINDIFG SCREW-3NMDX10MM	RVESTLR	5027261	VARIABLE RESISTOR 100KOHM(B)
92	6334905		RV852LR	5027261	VARIABLE RESISTOR 100KOHM(B)
93		HANDLE ARM	RV853LR	5027261	VARIABLE RESISTOR 100KOHM(B)
94		FLAT SCREW-3MMDX10MM(BLACK)	RV854LR	5027261	VARIABLE RESISTOR 100KOHM(B)
95		HANDLE BRACKET (L)	RV855LR	5027261	VARIABLE RESISTOR 100KOHM(B)
96		HANDLE BRACKET (R)	R301	0111033	METAL OXIDE RESISTOR 820HM+-5%,1W
97		BIND SCREW-3X5MMD	R903	0111035	OXIDE METAL FILM 1000HM+-5%
98		FRONT CASE ASSEMBLY		-	SEMI-CONDUCTORS
99		SPEAKER-16CM			SERI-COMPOCIONS
100		BT SCREW-3MMD	0101-102	5331851	DIODE 1N4148
101		SPEAKER-12CM	D103	5330661	DIODE SILICON 182790
102		BT SCREW-3MMD	0301	5331015	DIODE HZ-5C1
102		SPEAKER-TWEETER	D401LR	5331651	DIODE 1N4148
103		BUILT-IN MICROPHONE	D402LR	5331851	DIODE 1N4148
104			D601-605	5331992	DIODE 1N4001
		MICROPHONE HOLDER	0801-803	5331851	DIODE 1N4148
106		BT BIND HEAD SCREW-3MMDX8MM (BLACK)	0804-806	5330572	DIODE SILICON 152473HC
107		REAR CASE ASSEMBLY (FOR E)	10201	\$369D44	IC 1676404B
107		REAR CASE ASSEMBLY [FOR E (BS)]			IC TA7640AP
108		BATTERY LID ASSEMBLY	16301		IC AN7420
109		SPRING A	10401		IC BA343
110		BATTERY TERMINAL	10501		IC UPC1278H
111		BATTERY HOLDER	10502		IC AN7161N
112		BATTERY SPRING	10901		IC AN6884
113		B BT BIND HEAD SCREW-3MMDX8MM (BLACK)	LED301		LED LN417RP
114		RECORD LEVER (B)			LED LNOS263P
115	736266	RECORD LEVER (C)	9101-102	US73516	TRANSISTOR 2SC535B

SYMBOL-NO	P-NO	DESCRIPTION	SYMBOL-NO	P-N0	DESCRIPTION
		SEMI-CONDUCTORS	L154	5124031	SW OSCILLATOR COIL
Q151	5322571	TRANSISTOR HIT9011H	L155		MW OSCILLATOR COIL
9401LR	5322591	TRANSISTOR HIT9014N-C	L156		
0402		TRANSISTOR 2SC945P			LW OSCILLATOR COIL
9403		TRANSISTOR HIT9014N-C	L157	3121004	CHOKE COIL
9501		TRANSISTOR HITBUSDC			MISCELLANEOUS
4502		TRANSISTOR 2SC1684R	_		
9801LR		TRANSISTOR 2SC1684R	Δ		POWER CORD[FOR E]
9802LR			△	5746342	
WOUZER	3322141	TRANSISTOR 2SC1684R	CF201	5160211	CERAMIC FILTER CF107A
		TRANSFORMERS	<b>∆</b> F601	5721376	FUSE 2A
		-	<b>▲</b> F602	5721375	FUSE 160MA (FOR E (BS))
<b>△</b> PT	5213451	POWER TRANSFORMER (FOR E)	J401LR	5673511	JACK-3.5MMD (MIC)
<b>△</b> PT	5213452	POWER TRANSFORMER [FOR E (BS)]	J4D2LR	5676481	PIN JACK (LINE OUT)
T101	5148162	FM IF TRANSFORMER	J403LR	5676481	PIN JACK (LINE IN)
T201	5132222	AM IF TRANSFORMER	1404	5673511	JACK-3.5MMD (MIX. MIC)
1202	5148164	FM IF TRANSFORMER	J501	5673552	HEADPHONE JACK
T203	5132221	AM IF TRANSFORMER	J601		DC JACK
T401	5260481	OSCILLATOR COIL	\$201		LEVER SWITCH (AM BAND)
			5401		LEVER SWITCH (FM MODE/RIF)
		COILS	\$402		SLIDE SWITCH (REC/P.B.)
L101	5127083	FM RF COIL	5403		LEVER SWITCH (TAPE)
L102	5127087	CHOKE COIL	\$501		LEVER SWITCH (FUNCTION)
L103-104	5127084	CHOKE COIL	\$502		LEVER SWITCH (SPEAKER/INNER MIC)
L151		SW ANTENNA COIL	\$503	5601271	
L152-153		FERRITE ANTENNA	\$601		
C:36-133	J110343	LEUNTIC VALENNY	3001	2066341	SLIDE SWITCH (AC/BATT.)

#### **DIAL CORD STRINGING**



#### Stringing Method

- 1. Turn the pulley fully clockwise.
- 2. String the dial cord in the direction of the arrow(Nos. 1-9).
- 3. Set the dial pointer to setting position.

#### **NOTE FOR** SCHEMATIC DIAGRAM

1. Voltage measured at base of chassis with minimum volume control and no signal.

z. Nomenciature	of resistors	and Capacitors.			
r	(	Circuit No.			
F	Value	No indicated Ω(Ohm) M : 1000 kΩ			
R101 150- RS-1-K-	Tolerance	No indicated ±5% K:±10% M:±20%			
	Wattage	No indicated ¼W			
	Sort	No indicated Carbon film RC : Composition RW : Wire wound RS : Oxide metal film RN : Fixed metal film			
F	Circuit No.				
F	Value	No indicated µF P:PF			
⊥ C101 T0.001•M	Tolerance	No indicated ±10% J:±5% M:±20% Z:+80%, -20% D:±0.5pF C:±0.25pF			
0.1					
-		Electrolitic			
	Sort	Mylar Mylar	_		
		Polyester Polyester			
+ <u> </u> , C102		Styrol			
-T0.1/16- ₁	Voltage	No indicated 50WV	_		

- 3. Be sure to make your orders of resistors and capacitors with value, voltage, tolerance and sort.
  4. When replacing capacitors marked with \*, use specified ones stated on parts list since required temperature characteristics.

[	Ту	Type of head								
	P	P Pan head screw		ВТ	Binding head tapping screw	T				
	F	Flat countersunk head screw	7	BL	Bolt	T				
P3×8	В	B Binding head screw		w	Washer	0				
(a) W2.6	T	Round head tapping screw	V	E	"E" ring	ଜ				
	Length (L mm)					<u> </u>				
	Diameter (D mm)				<b>©</b> ‡					

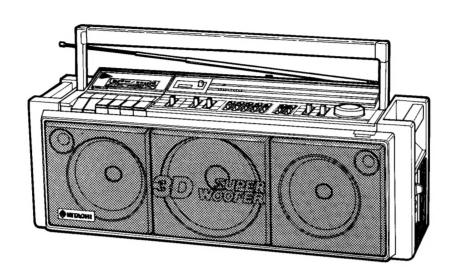
When ordering hardware excluding stated on these lists, be sure to make your orders with type and size.



TY

No. 522 E

TRK-3D7MK II E, E(BS)



This unit is the same as the <u>TRK-7620E/E</u> (BS) which is released previously, except the appearance parts. For servicing, refer to the TRK-7620E/E (BS) Service Manual (TY No. 2151E).

#### **REPLACEMENT PARTS LIST**

The numbers in the SYMBOL NO. column correspond to those in the exploded view in the TRK-7620E/E (BS) Service Manual.

SYMBOL NO.	NEW PARTS NO.	DESCRIPTION	ORIGINAL PARTS NO.	
76 4041822		Top panel assembly (83, including cassette lid assembly)	6010542	
83	4030614	Cassette lid assembly	6095471	
98	4041842	Front case assembly	6010562	
107	4041863	Rear case assembly [for E]	6010583	
107	4041864	(108, including battery lid assembly Rear case assembly [for E (BS)] (108, including battery lid assembly)	6010584	

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

FM/SW/MW/LW RADIO CASSETTE TAPE RECORDER

**July 1986** 

**TOYOKAWA WORKS** 

